

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number  
**WO 2005/008025 A1**

(51) International Patent Classification<sup>7</sup>: **E21B 43/01**,  
33/043, 33/035

[US/US]; 1360 Post Oak Boulevard, Suite 500, Houston,  
Texas 77056 (US).

(21) International Application Number:  
PCT/AU2004/000904

(74) Agent: **GRIFFITH HACK**; 509 St Kilda Road, MEL-  
BOURNE, Victoria 3004 (AU).

(22) International Filing Date: 5 July 2004 (05.07.2004)

(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/488,227 17 July 2003 (17.07.2003) US

(71) Applicant (*for all designated States except US*): **BHP BIL-  
LITON PETROLEUM PTY LTD** [AU/AU]; 600 Bourke  
Street, Melbourne, Victoria 3000 (AU).

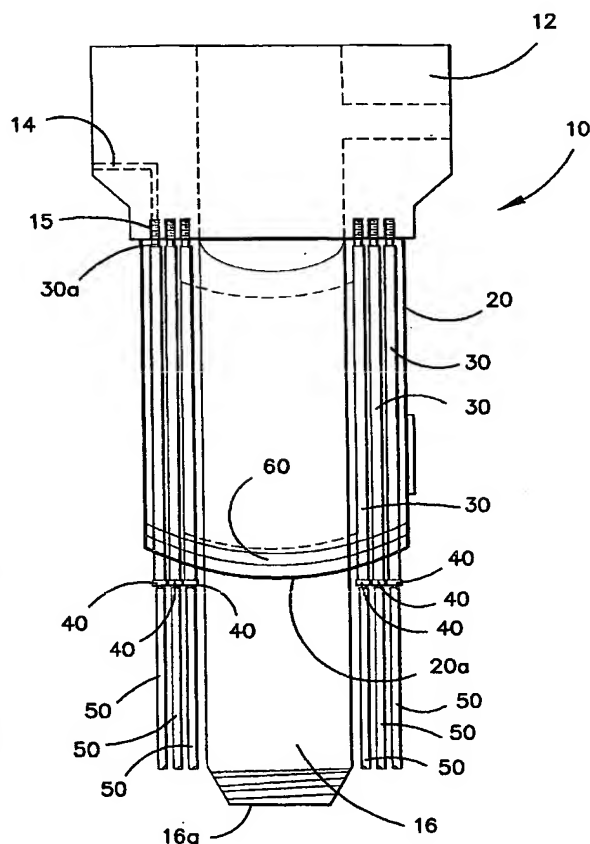
(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **WALKER, Timothy**

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,

[Continued on next page]

(54) Title: SUBSEA TUBING HANGER ASSEMBLY FOR AN OIL OR GAS WELL



(57) Abstract: A subsea tubing hanger assembly is disclosed which comprises a tubing hanger (12) having a plurality of conduits (14). A pup joint (16) is connected to the hanger (12) and a shroud (20) surrounds the pup joint (16). A plurality of extension capillary tubings (30) are connected to respective conduits (14) and extend between the shroud (20) and pup joint (16) to a position exterior of the shroud (20). The tubings (30) are provided with a connector (40) at their ends to facilitate connection of the tubings (30) to capillary tubings (50) of a well.



ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*